



Premium Pharmaceutical Ingredients

Corporate Overview

Manufacturers of Premium Pharmaceutical Ingredients and Bulk cGMP Fine Chemicals

Revision 9.7
09/18/2023

Corporate Vision, Mission, Values

People Matter



Vision

Committed to be a **leading manufacturer** of pharmaceutical ingredients that support **safe** drugs and vaccines that deliver **consistent, reliable therapeutic effect** with every dose

Mission

To manufacture the **highest quality, safest and sustainable** Pharmaceutical ingredients under the supervision of the **most rigorous** quality system while upholding the **most stringent** compliance standards



Values

Honesty / Integrity / Respect / Safety / Sustainability
BioSpectra rigorously upholds uncompromised standards because... **“people matter”**

Corporate Profile

BIOSPECTRA™ is a family of companies under common (private) ownership that includes Dextran Products (Ontario, Canada), BioDevelopment Inc. (Rensselaer, NY) and BioSpectra Inc., located in Stroudsburg, Bangor and Wind Gap, PA, USA.

In addition to these seven manufacturing and storage facilities in North America, BioSpectra Inc. oversees contract R&D facilities in Mumbai, India and a cGMP manufacturing plant in Sarigam, India as well as several manufacturing sites in China for chemical raw materials. All Finished Products are fully tested and packaged under cGMP conditions if not purified and/or synthesized in the US.

As a true, global organization with US based manufacturing, packaging and testing of all its products, BioSpectra Inc. offers a unique range of products to the Pharmaceutical industry that includes Actives, Excipients, GMP Process Chemicals & Bulk GMP Buffers and Solutions

Our focus is small molecule synthesis and true, phase change multistep purification for both traditional and bio-pharmaceutical applications, coupled with robust Supply Chain Security and Sustainability programs.



Corporate Profile

Our services include Contract GMP product development coupled with ongoing commercial manufacturing and regulatory support up to and including DMF submissions.

All our manufacturing processes are fully validated. Our cGMP Quality System & regulatory support package complies with USFDA, IPEC & ICHQ7 guidelines. Our onsite analytical testing capabilities include multi-compendial and custom specifications with full traceability and transparency of all raw materials and sources.

Our commitment is to quality, compliance and true, cGMP manufacturing with unparalleled regulatory & technical support, operating under the most rigorous quality system while holding to the most stringent regulatory demands.

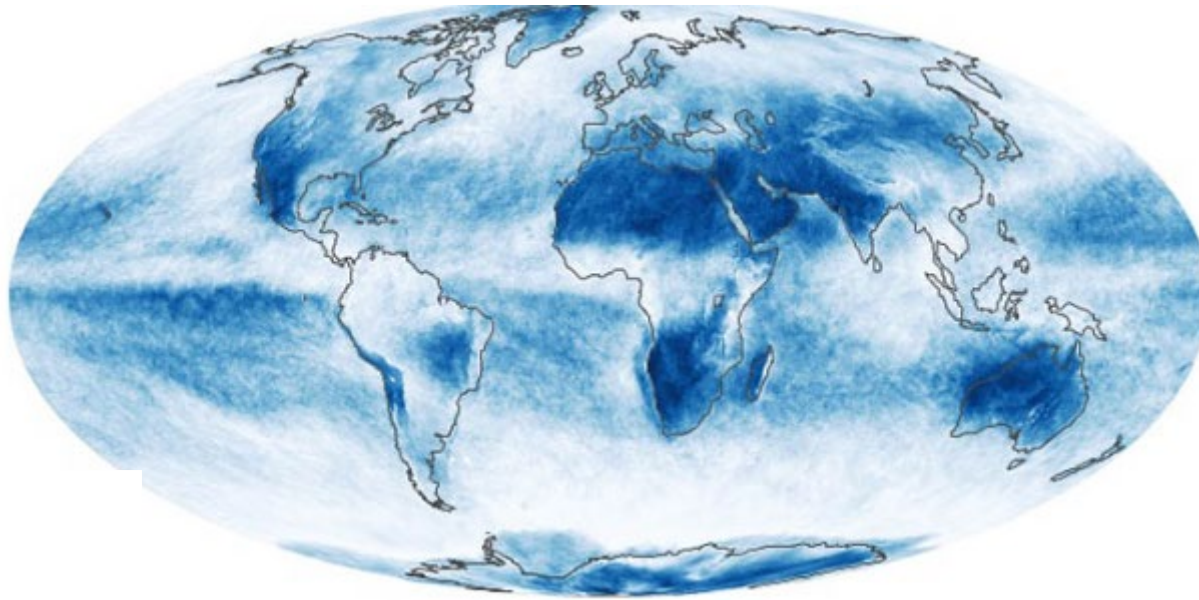
Our goal is to be a valued partner in the secure supply chain and the solution to key ingredient issues our customers may have.



Sustainability and Supply Chain Security

Sustainability

BioSpectra is committed to the ideals of Sustainability and has launched a three-year thirty million dollar capital investment program to help achieve these goals. We are currently working on an external program that is available on our website. We are registered with ECOVADIS, currently achieving Bronze Status.



Supply Chain Security

BioSpectra is fundamentally committed to the ideals of Supply Chain Security. We prosecute an aggressive raw material supplier qualification program. Our Quality Program is posted and available on our website. We take very seriously the global supply-chain situation assessing and reacting to threats with real solutions. BioSpectra Inc, continues it's long history of sourcing and qualifying raw material so as not to be sole sourced on any key chemical that originates from only one country.

Corporate Commitment to True GMP Products

- Authentic, Secure Supply Chain – 100% Traceable Raw Materials from Qualified Sources
- Reliable, Consistent, Uniform, Quality-Based Manufacturing of Premium Ingredients
- Fully Validated GMP Manufacturing Systems & Qualified Equipment
- True GMP Product Claim – Always Synthesized and/or Purified
- Manufactured Exclusively in the USA



TRUE GMP

BSI **does not** simply test and package under a “GMP system”; rather, **we always increase the quality and compliance levels** through multiple steps of synthetic **manufacturing and/or purification for all** BioSpectra labeled products.

PREMIUM PHARMACEUTICAL INGREDIENTS

MANUFACTURED EXCLUSIVELY IN THE USA

GMP Product Categories

- GMP Process Chemicals
- Bulk Custom Solutions
- Bulk Biological Buffers
- Functional Excipients
- Active Ingredients

GMP Custom Services

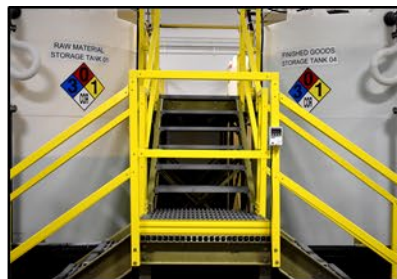
- GMP Product Development
- Small Molecule Synthesis
- Purification of Excipients
- Scale-Up, Bench to Bulk
- Regulatory (product) Support

Corporate Values & Commitments

- True GMP Product Claim-Always Synthesized and/or Purified, and not simply tested and repackaged
- Reliable, Consistent, Uniform, Quality-Based
- Authentic, Secure Supply Chains - 100% Traceable Raw Materials from Qualified Sources
- Fully Validated GMP Mfg. Systems & Qualified Equipment

Comprehensive Quality & Regulatory System

- FDA Registered & Inspected
- Full Transparency in Documentation
- Stringent Quality Program & Controls
- Document Support- DMF Submissions
- Rigorous compliance to Global Standards
- FDA & ICH Q7 Guidance for Drug Substances
- State-of-the-art Instrumentation & Laboratories
- Culture of Embracing Evolving Regulatory Demands



Comprehensive Quality & Regulatory Program

Operating a Stringent Quality & Regulatory Program

- Upholding Global Regulatory Requirements
- Testing to the Highest Quality Standards
- Applying Rigorous Oversight & Controls



- **Global GMP Standards** Meeting US-FDA, ICH Q7 & IPEC Guidelines
- **Comprehensive Internal Auditing** of all Manufacturing Processes
- **Regulatory Services** including Drug Master File Submissions
- **FDA Process Validation** for all GMP Manufacturing Systems
- **Complete Testing** of all Finished Manufactured Lots
- **On-site Quality Control Labs** Operating 24/7
- **Robust Preventive Maintenance Program**
- **State-of-the-art Instrumentation**
- **FDA Registered & Inspected**
- **Raw Materials:**
 - Qualified and Inspected Sources
 - 100% Authentic Traceability
 - Complete Testing

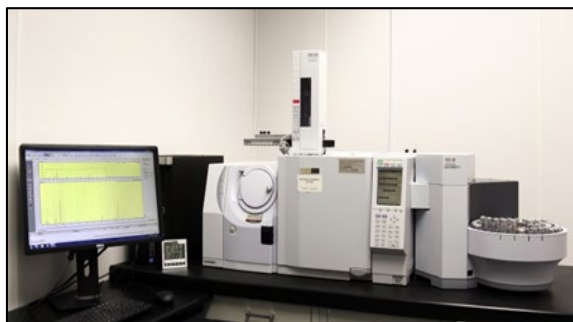


Comprehensive Quality & Regulatory Program

Quality Assurance



- Validation of all GMP Manufacturing Systems
- Rigorous Preventive Maintenance Program
- Qualification of all Equipment
- Stringent Cleaning Protocols
- Environmental Monitoring
- Change Control Process
- Equipment IQ-OQ-PQ
- Document Control



Regulatory Control & Support

- Creation and Submission of Drug Master Files for APIs and Excipients
- Creation and Control of all Critical Documentation
- Management of all External Audits and Certifications

Quality Control

- Fully staffed, on-site Quality Control Laboratories
- Validation and Verification of all Test Methods
- Qualification of all Instrumentation including ICP-MS, GC-MS, HPLC, UV/Vis, TOC, Ion Chromatographer, Conductivity Meter, Microcount UATR, Polarimeter, Karl-Fisher Titrator & more



GMP Support Package

GMP Support Package for all ICH-Q7 Level Products

Analytical Support

- Analytical Method Validation
- Transfer of Analytical Methods
- Custom Analytical Methods and Specifications
- Bioburden and Endotoxin Testing
- Complete Impurity Profile
- Elemental Impurities
- Residual Solvents



Development Support

- Stability Study
- Custom GMP Services as needed
- Custom Labeling and Packaging
- Manufacture of API Registration Batches
- Drug Master File submission
- Letter of Authorization
- Efficient Development Timeline
- High-touch management of your project



Ongoing Support - Post FDA Approval

- Commercial Manufacturing of your API
- On Site Audits
- Annual Product Review
- Management of Change
- Post Submission Change Notification
- Full support through the life of your product



WHY IT MATTERS

Our Internal Marketing Campaign

WHY IT MATTERS



OUR **HIGH QUALITY PRODUCTS** ARE helping thousands of women


Supporting the **FIGHT AGAINST BREAST CANCER**



Our cGMP MES Monohydrate and Tris HCL, are essential buffers for the manufacture of amazing new breast cancer drugs

BIO SPECTRA


WHY IT MATTERS



You are saving millions of children from HPV and Cancer


BY KEEPING OUR CGMP MOPS FREE FROM CONTAMINATION

CGMP MOPS is a critical component of this **global leading vaccine**



BIO SPECTRA

WHY IT MATTERS



FIGHTING PROSTATE CANCER

OUR HIGH QUALITY PRODUCTS ARE HELPING THOUSANDS OF MEN

OUR CGMP GN HCL/IDA IS AN ESSENTIAL COMPOUNDED SOLUTION USED IN THE MANUFACTURE OF AN EXTREMELY SUCCESSFUL MALE PROSTATE DRUG

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WHY IT MATTERS



Product Care = Doggy Care

Our KBr API is used in seizure medication preventing millions of dogs from suffering




CARING FOR OUR PRODUCTS THE WAY OUR DOGS CARE FOR US



BIO SPECTRA


WHY IT MATTERS



Our contaminate-free products have supported **Billions of Covid Vaccine Doses**


Preventing Billions of Infections

Tris, Tris HCL, Hepes, MES, Urea





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WHY IT MATTERS



CARDIAC BYPASS SURGERY Recovery

Requires Consistent high quality Tromethamine API

ALLEVATING METABOLIC ACIDOSIS FOR THOUSANDS OF PATIENTS EACH YEAR

BIO SPECTRA

why it matters.




Our Customers are not Big Pharma Our true Customers are people like **You.**

High Purity Pharmaceutical Ingredients Made by People Who Care

BIO SPECTRA


WHY IT MATTERS



Saving Millions

We are supporting several Covid Treatments that have already saved millions of lives

Following **cGMP Guidance**



With our Tris, Tris HCL, 10N NaOH, Guanidine HCL, MES and Urea Products


BIO SPECTRA

WHY IT MATTERS.



SODIUM DECANOATE

WHEN YOU NEED TO BREATHE




Sodium Decanoate is an essential ingredient in a new drug for patients suffering from Cystic Fibrosis. GMP Excipient grade Sodium Decanoate is produced at our Biospectro, Beger Facility.

BIO SPECTRA

WHY IT MATTERS

MACULAR DEGENERATION causes millions of old and young to go blind each year



Contaminate-free product matters

Our 10N NaOH, Tris, Tris HCL and Guanidine HCL are primary cGMP Products used to produce the world's leading drug that stops macular degeneration

We have supplied millions of liters of this product that have helped keep millions more from going blind

BIO SPECTRA

WHY IT MATTERS

GOWNING MATTERS

It takes only **One Eyelash**




to force our Customers to **DESTROY Millions of Dollars** of finished Drug Product

BIO SPECTRA

WHY IT MATTERS.




Personal Protective Equipment & Gowning

Protects Us - Protects Them


protects each employee from chemical exposure & protects our cGMP products from **damaging** contamination

BIO SPECTRA


PARTICULATES MATTER



1 IN 1,000 PEOPLE



1 IN 100,000 PEOPLE



1 IN 1,000,000 PEOPLE

PARTICULATES ARE "EVERYWHERE"

WHY IT MATTERS

IT ONLY TAKES ONE PART PER MILLION OF PARTICULATE TO CONTAMINATE A WHOLE BATCH OF FINISHED PRODUCT

THE MOST IMPORTANT 1 IN THIS EQUATION IS YOU

BIO SPECTRA

Our Focus

Premium Pharmaceutical Ingredients

1. Solving Key Ingredient Needs

- a) Launching New Commercial Products**
- b) Full cGMP Product Development**
- c) Synthesis, Purification & Technical Support**



2. Upgrading Your Supply Chain

Facilitating the move to higher levels of:

- a) Quality
- b) Security
- c) Regulatory Compliance



3. Commercial Volumes

- a) Scalable
- b) Sustainable
- c) Supported through your Product Lifecycle



CRITICAL INGREDIENT ISSUES?

Purity?

Security?

Source?

Scale?

Synthesis?

Specifications?

Compliance Standard?



Critical Manufacturing & Ingredient Issues:

Inconsistencies from lot to lot / Insufficient purity levels / Contamination / Need for “real” GMP mfg. / Non-dedicated facilities / Incomplete testing & Documentation deficiencies / Absence of true traceability / High Microbial & Endotoxin levels / Recalled or scrap product / Need for custom specifications / Need for higher levels of quality and compliance

Supply Chain Security Issues:

Availability / Reliability & trustworthiness / Distance / Safety stock / Manufacturing interruptions / Authentic chain of custody

Regulatory Issues:

IPEC, ICH, GMP, FDA, EMA Compliance issues / Need for global specifications / Need for true validated manufacturing processes / Requirement for a higher compliant raw material

Mitigation Experts

Premium Pharmaceutical Ingredients

SOLUTION

- **True GMP Process**
- **Actual Purification**
- **Dedicated Facilities**
- **Base Synthesis of raw materials**
- **US Manufactured GMP Products**
- **True Quality-Based Manufacturing**
- **Total Quality Program: QC / QA / Regulatory**
- **100% Reliable Traceability of all raw materials**
- **Proven record of adherence to GMP, IPEC, ICH Guidelines**



BioSpectra represents consistent high quality, uniformly manufactured pharmaceutical ingredients.

Always synthesized, purified or compounded under true GMP standards.

Always manufactured at the appropriate specifications and compliance levels for the intended use in the final drug product.

Business Model

Exclusive to Bio Pharma and Traditional Pharma

Stroudsburg PA



GMP Buffers

Large Commercial Volumes

EXAMPLE

TRIS, TRIS HCl, MOPS,
Guanidine HCl

Bangor PA



GMP EXCIPIENTS & PROCESS
CHEMICALS

Mid-Large Comm. Volumes

EXAMPLE

Trehalose Dihydrate,
Galactose, Na- Decanoate,
Uridine, MES, HEPES, 10N
NaOH, Buffer Solutions

Rensselaer NY



SMALL MOLECULE, GMP API's &
EXCIPIENTS

Small Commercial Volumes

EXAMPLE

Uracil, Dextran Sulfate
8000, L-Hist., Mono-Mono,
Hydrolyzed PVA API's:
Uridine & Cytidine

BioSpectra sells buffers, denaturants and other products into large molecule BioPharma, but also manufactures GMP process chemicals, Excipients and API products for traditional, synthetically derived, small molecule, Pharma.

What We Do

Synthesis

API's

*Small
Molecule
NCE's*

*Chlorinated
Amino
Acids*

Purification

Bio Buffers

Carbohydrates

*Fine
Chemicals*

GMP Solutions

*Contract GMP
Manufacturing*

*Parenteral
Ingredients*

Excipients

What We Do

BIOSPECTRA
Bulk cGMP Fine Chemical Mfg.



Visit us at CPHI Barcelona!
Stand #CC.C19 - center corridor in the fine chemicals zone

Functional Excipients
Custom Buffer Solutions
Full cGMP Development

API's / NCE's
Amino Acids & Sugar
Small & Large Volumes
Synthesis & Purification
Critical Small Molecules

When You Absolutely Need Fully GMP
biospectra.us ~ 100 Majestic Way, Bangor, PA 18013

When You Absolutely Need FULL cGMP!

BIOSPECTRA
Premium Pharmaceutical Ingredients



- Full cGMP Development
- Synthesis & Purification
- Small & Large Volumes
- APIs / NCEs
- Amino Acids / Sugars
- Critical Small Molecules
- Custom Buffer Solutions
- Functional Excipients

Exclusively Manufactured in the USA

www.biospectra.us
100 Majestic Way, Bangor, PA 18013

Product Grades & Compliance Levels

Premium Pharmaceutical Ingredients

Bio Ultra & Bio Ultra w/ BET (LBLE)*

Bio Pharma & Bio Pharma w/ BET (LBLE)*

Bio Excipient & Bio Excipient w/ BET (LBLE)*

Bio Active & Bio Active w/ BET (LBLE)*

***Note: LBLE** = Low Bioburden, Low Endotoxin non-sterile products suitable for further use in parenteral manufacturing and other sterile applications.

- **cGMP (US-GMP)**
- **IPEC (International GMP)**
- **FDA Registration / Inspection**
- **Internal Controls and Systems**
- **ICH Q7 & other applicable USP & ICH standards**



Facility Profile



Pharmaceutical Ingredient Manufacturing

Bulk Manufacturing Facility & Head Corporate Offices:
Administration, Regulatory Affairs, Quality Assurance & Control
Address: 100 Majestic Way, Bangor, PA 18013
Staff: 125+ Employees | Site: 150,000+sq. ft. on 37+ Acres

Overall
Facilities: 343,000 sq. ft. 52+ Acres
5 Campuses in PA and NY
Staff: 300+ Employees
More Info: www.biospectra.us



Biological Buffer Manufacturing

Bulk Manufacturing Facility, Quality Assurance & Control
Address: 1474 Rockdale Lane, Stroudsburg, PA 18360
Staff: 50+ Employees | Site: 25,000+sq. ft. on 3+ Acres



Supply Chain Center

Shipping and Receiving & Security HQ
Address: 3rd Street, Stroudsburg, PA 18360
Staff: 20+ Employees | Site: 60,000+sq. ft. on 2+ Acres



Bio Development Inc

R&D Kilo-Scale GMP Manufacturing
Address: 11 University Place, Rensselaer, NY 1214
Staff: Growing | Site: 10,000+sq. ft.



Corporate Services Center

Commercial, IT, HR, Finance & Training Center
Address: 1349 Jacobsburg Road, Wind Gap, PA 18091
Staff: 30+ Employees | Site: 25,000+sq. ft. on 2+ Acres

Key Equipment & Manufacturing Scale

Premium Pharmaceutical Ingredients



- **More than 24 GMP Manufacturing Suites** with compliance levels ranging from IPEC to ICH Q7
- **More than 30 Glass, 316-Stainless Steel and Composite Reactors**
- **Environmentally controlled Packaging Rooms**
- **Quality Control Labs** with industry leading instrumentation
- **Manufacturing Capabilities:** Synthesis / Purification / Compounding
- **Drying Systems:** Spray / Fluid Bed / Rotary / Tray

Scale & Capacity



- **Reactors:** Solvent & Alcohol / Corrosive Resistant Glass Lined / Stainless Steel
- **Reactor Scale:** 20L to 6,000L
- **Solutions Batch Scale:** 800L to 14,000L
- **Dry Batch Scale:** 1 kg to 20,000 kg
- **Overall Operational Capacity:** Thousands of Metric Tons per Year

cGMP Warehouse Complex

51 North 3rd Street Stroudsburg, PA 18360



PURIFIED - cGMP BIOLOGICAL BUFFERS

Exclusively Manufactured in the USA



**TROMETHAMINE, TRIS HCl,
GUANIDINE HCl, UREA,
HEPES, MES, MOPS**



- Bulk Solutions
- Multi-Compendial
- Pharma GMP Process
- Excipient & API Grades
- Low Bioburden / Endotoxin

STRINGENT QUALITY PROGRAM

FDA Registered and Inspected / US GMP / IPEC / ICH Q7 Guidelines

GMP BULK SOLUTIONS

Exclusively Manufactured in the USA



NaOH 10N, 5N, 2N, 1N & 0.1N
Custom Buffer Blends
Guanidine HCl 6M
IPA/HCl 6M
NaCl 5M
Urea 6M



- Made w/ WFI
- Sterile Filtered
- Class 7 Mfg. Suites
- Sterile Single-use Pkg
- Custom Compendial Specs

STRINGENT QUALITY PROGRAM

FDA Registered and Inspected / US GMP / IPEC / ICH Q7 Guidelines

CONTRACT cGMP MANUFACTURING

ACTIVES | EXCIPIENTS | PROCESS CHEMICALS



**Synthesis
Compounding
Purification**

**Aqueous
Solvent
Alcohol**



- **Small Molecules**
- **Custom Solutions**
- **Functional Excipients**
- **Scale Up - Bench to Bulk**
- **Small & Large Commercial Qty's**

STRINGENT QUALITY PROGRAM

FDA Registered and Inspected / US GMP / IPEC / ICH Q7 Guidelines

ICH Q7 PARENTERAL INGREDIENTS

LOW BIOBURDEN – LOW ENDOTOXIN – HIGH PURITY



Rigorous Quality System
Validated GMP Process
State-of-the-art facility



- APIs
- BUFFERS
- EXCIPIENTS
- AMINO ACIDS
- CARBOHYDRATES
- SMALL MOLECULES

STRINGENT QUALITY PROGRAM
FDA Registered and Inspected / US GMP / ICH Q7

Functional Small Molecules Kilo-Scale / cGMP

Located In Rensselaer NY & Bangor PA, USA



Eight Multipurpose Suites
Wide Range of Synthesis
5-15 Kg Batch Sizes



- Orphan Drug Support
- Functional Small Molecules
- Parenteral/Transdermal/Oral Application

STRINGENT QUALITY PROGRAM
FDA Registered and Inspected / US GMP / ICH Q7

Summary List of Products

L-Arginine HCl – GMP, USP, EP, JP, Pharma Process Grade

BIS-TRIS – GMP, LBLE, Bio Excipient Grade

BIS-TRIS HCl – GMP, LBLE, Bio Excipient Grade

Cholesterol - Synthetic, Parenteral Excipient Grade

Cysteamine Hydrochloride – API Grade

L-Cystine Dihydrochloride – GMP, Pharma Process Grade

Cytidine – API Grade

Dextran 70,000 – GMP, Bio Excipient Grade

Dextran Sulfate Sodium 8000 MW – GMP, Pharma Process Grade

Galactose – GMP, Excipient Grade– Low Bioburden, Low Endotoxin (LBLE), Low Elemental Impurities (LEI), Multicompendial

Glycerine, Synthetic Parenteral - USP/EP/JP/ChP – cGMP, excipient, Multicompendial

L-Glutamine – GMP, LBLE, Bio Excipient Grade

Guanidine HCl – GMP, Pharma Process and Excipient Grades

Guanidine HCl, 6M Solution – GMP Pharma Process and Excipient Grades

Guanidine Thiocyanate – GMP, Pharma Process Grade

HEPES Free Acid – GMP, Pharma Process, and Excipient Grades

HCl in IPA (6N) – GMP, Pharma Process Grade

L-Histidine – GMP, Parenteral Excipient Grade

L-Histidine Monohydrochloride, Monohydrate – GMP, LBLE, EP, JP, Bio Excipient Grade

2MEA (Cysteamine Hydrochloride) – GMP, Excipient Grade– Low Bioburden, Low Endotoxin (LBLE)

MES Monohydrate – GMP, Pharma Process, and Excipient Grades

MOPS Free Acid – GMP, Pharma Process and Excipient Grades

Potassium Bromide (KBr) – GMP, API Grade

Sodium Chloride 5N – GMP, Sterile Filtered, made with WFI, BPC, Excipient Grade

Sodium Decanoate – GMP, Functional Excipient for Parenteral Applications

Sodium Hydroxide 10N – GMP, <5 ppm Cl, made with WFI, BET Tested

Sodium Hydroxide, 25%, 5N, 2N, 1N, 0.5N, 0.1N – GMP, made with WFI, Low Chloride

Trehalose Di Hydrate – GMP, Excipient Grade– Low Bioburden, Low Endotoxin (LBLE), Low Elemental Impurities (LEI) - Multicompendial

Trehalose Di Hydrate – Synthetic, API Grade

Tris HCl – GMP, Pharma Process, Excipient, and LBLE Grades

Tris/Tromethamine – GMP, Pharma Process, Excipient, LBLE and API Grades -Multicompendial

Uracil – GMP, Pharma Process Grade

Uracil – API Grade

Urea, 6M Solution – GMP, Bio Excipient Grade – made with WFI

Uridine – GMP, Bio Excipient Grade

Uridine – API Grade

Water for Injection (WFI) – GMP, Multicompendial, USP, EP, JP

**In Development /
Coming Soon**

Product Overview

BIOSPECTRA

Premium Pharmaceutical Ingredients

PRODUCTS

TECHNICAL

QUALITY

SERVICES

ABOUT US

All Products

Active Pharmaceutical
Ingredients (APIs)

Amino Acids

Biological Buffers and
Denaturants (Bulk GMP)

Carbohydrates (Bulk GMP)

Coming Soon

Excipients (Bulk GMP)

Parenteral Ingredients, Low
Bioburden, Low Endotoxin

Reagent/Process Chemicals
(GMP/non-GMP)

Lab/Diagnostic Chemicals
(non-GMP)

Solutions (Bulk GMP)

TRIS - All Products

TRIS HCl - All Products

Product Inquiry

P/N Conversion Chart

March 20-23, 2023 | The Lotte Palace



May 24-25, 2023 |

Chemicals
Actives

Contract GMP Manufacture
Synthesis & Purification



Bulk GMP Fine Chemicals exclusively

Current & Future Programs and Projects

Nitrogen Based Electron Pulse Spray Dry Technology

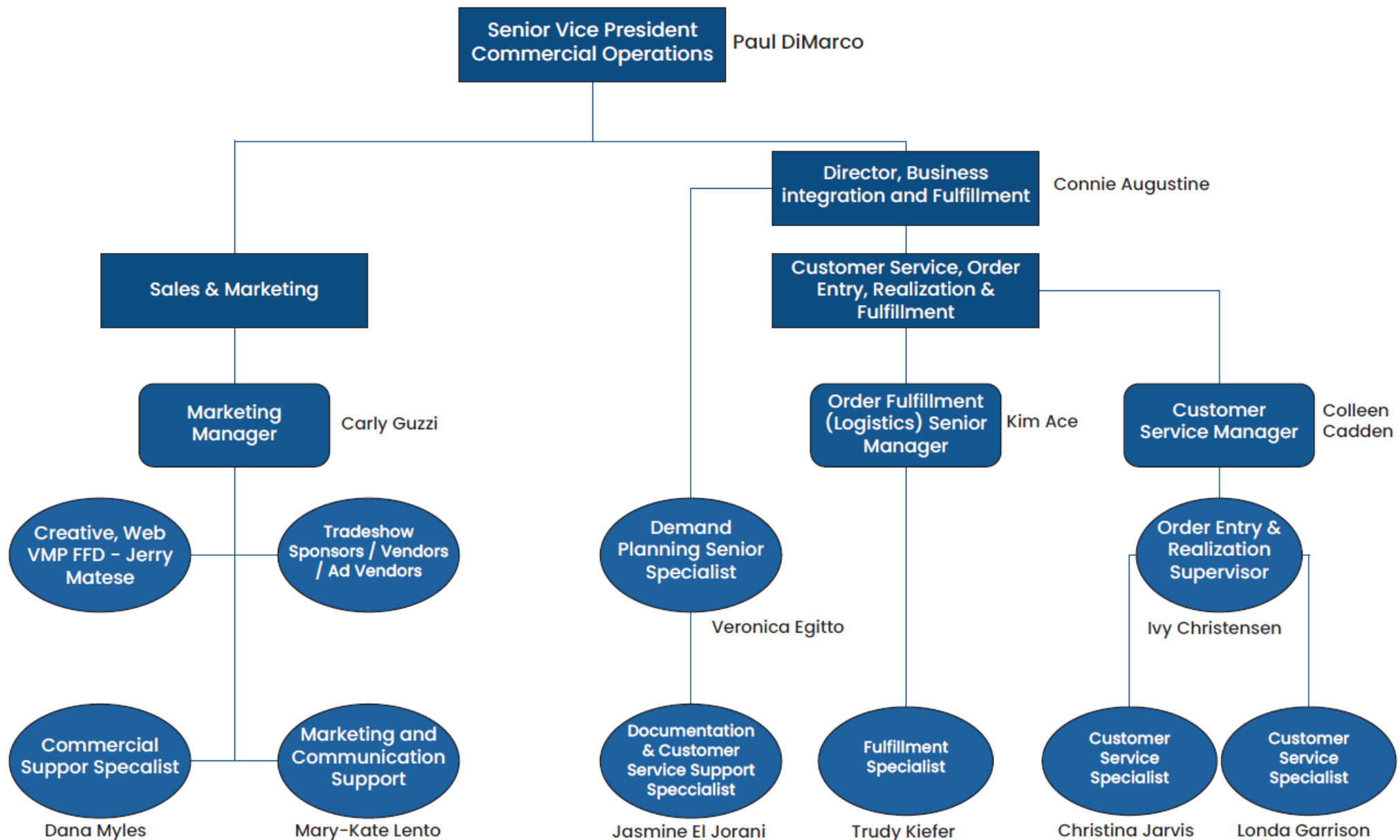


- ✓ Expanding Spray Dry Technology for various buffers and other Chlorinated products
- ✓ Offers efficiency in production
- ✓ Lowers exposure during drying process
- ✓ Reduced human “touch points”
- ✓ Creates less dense, more free-flowing material

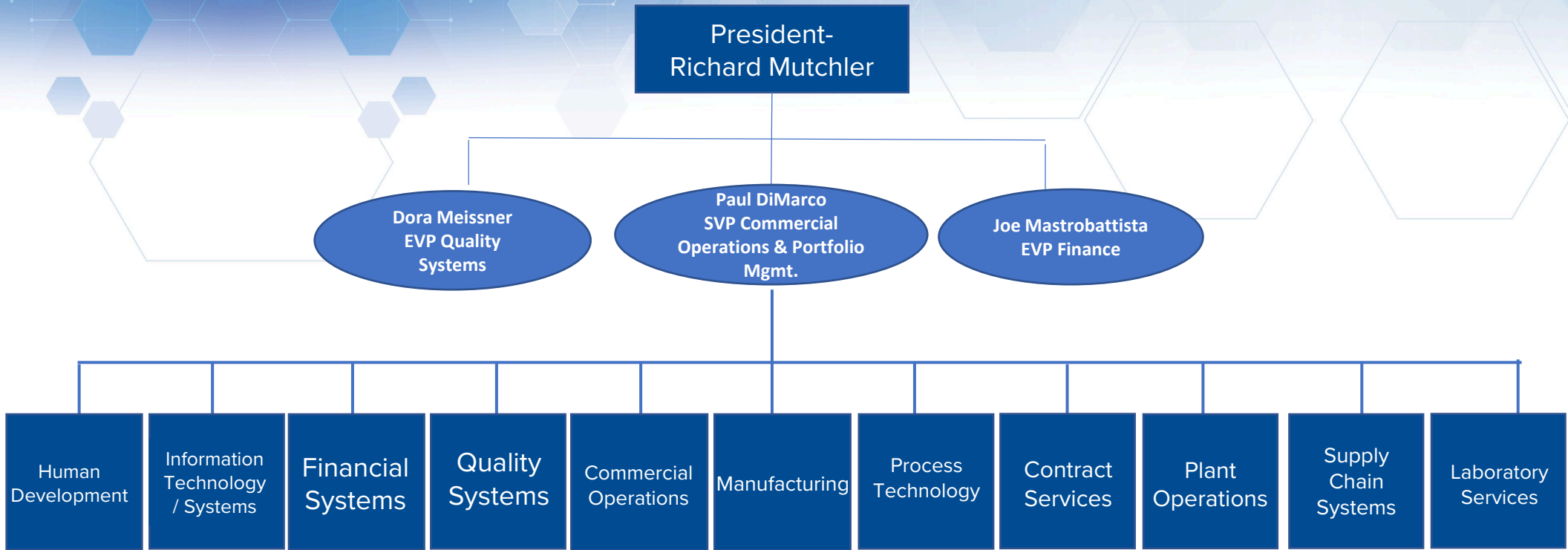
Current & Future Programs and Projects Continued

- 1. Small Molecule R&D and Synthetic Capabilities:**
 - a. Rensselaer NY**
 - b. Mumbai India**
- 2. Expanded Advanced Instrumental Capabilities: Elemental Analysis (ICP-MS and ICP-OES) and Particle Identification (Electron Microscopy)**
- 3. Expanded GMP Carbohydrate Polymer Line (Dextrans)**
- 4. Supply Chain Security: Raw material synthetic platform expansion for pilot and commercial scale (Sarigam, Gujarat, India)**
- 5. Expanded automated packaging facility and wet labs (Monroe Plaza Complex, Stroudsburg PA)**
- 6. Sustainability Program – three year program to address key sustainability issues**
- 7. Virtual Market Place and future e-commerce site**

Commercial Operations



Corporate Organizational Chart



Final Word

We Seek to Service...

Customers who are seeing:

- Increased security of supply
- A company with a strong growth model to support future commercial demands
- A company with a proven track record of commitment to the Pharmaceutical Industry
- A company focused on customer needs
- A flexible, transparent and responsive supplier
- A company committed to Sustainable Solutions
- A company investing in future technology

Customers who:

- Have critical ingredient issues that fall within our scope of chemistry, capabilities and capacity
- Need higher-purity, higher-compliance Pharma ingredients or cGMP process fine chemicals Ingredients
- Value full cGMP synthesized and/or purified products